In [3]:

```
data = pd.read_csv('Q7.csv')
data
```

Out[3]:

	Unnamed: 0	Points	Score	Weigh
0	Mazda RX4	3.90	2.620	16.46
1	Mazda RX4 Wag	3.90	2.875	17.02
2	Datsun 710	3.85	2.320	18.61
3	Hornet 4 Drive	3.08	3.215	19.44
4	Hornet Sportabout	3.15	3.440	17.02
5	Valiant	2.76	3.460	20.22
6	Duster 360	3.21	3.570	15.84
7	Merc 240D	3.69	3.190	20.00
8	Merc 230	3.92	3.150	22.90
9	Merc 280	3.92	3.440	18.30
10	Merc 280C	3.92	3.440	18.90
11	Merc 450SE	3.07	4.070	17.40
12	Merc 450SL	3.07	3.730	17.60
13	Merc 450SLC	3.07	3.780	18.00
14	Cadillac Fleetwood	2.93	5.250	17.98
15	Lincoln Continental	3.00	5.424	17.82
16	Chrysler Imperial	3.23	5.345	17.42
17	Fiat 128	4.08	2.200	19.47
18	Honda Civic	4.93	1.615	18.52
19	Toyota Corolla	4.22	1.835	19.90
20	Toyota Corona	3.70	2.465	20.01
21	Dodge Challenger	2.76	3.520	16.87
22	AMC Javelin	3.15	3.435	17.30
23	Camaro Z28	3.73	3.840	15.41
24	Pontiac Firebird	3.08	3.845	17.05
25	Fiat X1-9	4.08	1.935	18.90
26	Porsche 914-2	4.43	2.140	16.70
27	Lotus Europa	3.77	1.513	16.90
28	Ford Pantera L	4.22	3.170	14.50
29	Ferrari Dino	3.62	2.770	15.50
30	Maserati Bora	3.54	3.570	14.60
31	Volvo 142E	4.11	2.780	18.60

In [2]:

```
import statistics
```

In [13]:

```
points = data['Points']
points
```

Out[13]:

```
0     3.90
1     3.90
2     3.85
3     3.08
4     3.15
5     2.76
6     3.21
7     3.69
8     3.92
9     3.92
10    3.92
11    3.07
12    3.07
13    3.07
14    2.93
15    3.00
16    3.23
17    4.08
18    4.93
19    4.22
20    3.70
21    2.76
22    3.15
23    3.73
24    3.08
25    4.08
26    4.43
27    3.77
28    4.22
29    3.62
30    3.54
31    4.11
Name: Points, dtype: float64
```

In [59]:

```
score = data['Score']
score
```

Out[59]:

```
0     2.620
1     2.875
2     2.320
3     3.215
4     3.440
5     3.460
6     3.570
7     3.190
8     3.150
9     3.440
10    3.440
11    4.070
12    3.730
13    3.780
14    5.250
15    5.424
16    5.345
17    2.200
18    1.615
19    1.835
20    2.465
21    3.520
22    3.435
23    3.840
24    3.845
25    1.935
26    2.140
27    1.513
28    3.170
29    2.770
30    3.570
31    2.780
Name: Score, dtype: float64
```

In [61]:

```
weigh = data['Weigh']
weigh
```

Out[61]:

```
0     16.46
1     17.02
2     18.61
3     19.44
4     17.02
5     20.22
6     15.84
7     20.00
8     22.90
9     18.30
10    18.90
11    17.40
12    17.60
13    18.00
14    17.98
15    17.82
16    17.42
17    19.47
18    18.52
19    19.90
20    20.01
21    16.87
22    17.30
23    15.41
24    17.05
25    18.90
26    16.70
27    16.90
28    14.50
29    15.50
30    14.60
31    18.60
Name: Weigh, dtype: float64
```

1. FOR POINTS

In [57]:

```
mean = points.mean()
print('Mean :',mean)
median = points.median()
print('Median :',median)
mode = points.mean()
print('Mode :',mode)
var = points.var()
print('Variance :',var)
std = points.std()
print('Standard_deviation :',std)
range1 = points.max()-points.min()
print('Range :',range1)
```

```
Mean : 3.5965625000000006
Median : 3.6950000000000003
Mode : 3.5965625000000006
Variance : 0.28588135080645166
Standard_deviation : 0.5346787360709716
Range : 2.17
```

2. FOR SCORE

In [64]:

```
mean = score.mean()
print('Mean :',mean)
median = score.median()
print('Median :',median)
mode = score.mean()
print('Mode :',mode)
var = score.var()
print('Variance :',var)
std = score.std()
print('Standard_deviation :',std)
range2 = score.max()-score.min()
print('Range :',range2)
```

```
Mean : 3.2172499999999995
Median : 3.325
Mode : 3.2172499999999995
Variance : 0.9573789677419356
Standard_deviation : 0.9784574429896967
Range : 3.9110000000000005
```

3. FOR WEIGH

In [65]:

```
mean = weigh.mean()
print('Mean :',mean)
median = weigh.median()
print('Median :',median)
mode = weigh.mean()
print('Mode :',mode)
var = weigh.var()
print('Variance :',var)
std = weigh.std()
print('Standard_deviation :',std)
range3 = weigh.max()-weigh.min()
print('Range :',range3)
```

```
Mean : 17.848750000000003
Median : 17.71
Mode : 17.848750000000003
Variance : 3.193166129032258
Standard_deviation : 1.7869432360968431
Range : 8.399999999999999
```